

Amendments to the Claims:

Claims 1-23 (Canceled).

24. **(Currently amended):** A diagnostic kit for detecting antibodies to a *Brachyspira hyodysenteriae* lipoprotein having the amino acid sequence of SEQ ID NO:2, comprising a *Brachyspira hyodysenteriae* lipoprotein[[,]] having the amino acid sequence of SEQ ID NO:2.

Claims 25 -28 (Canceled).

29. **(Currently amended):** ~~[[The]]~~ An isolated and purified immunogenic *Brachyspira hyodysenteriae* lipoprotein ~~of 61 kD, as measured by sodium dodecyl-sulfate polyacrylamide gel electrophoresis (SDS-PAGE)~~ having the amino acid sequence of SEQ ID NO:2.

Claims 30 - 32 (Canceled).

33. **(Currently amended):** An immunogenic composition comprising ~~[[a]]~~ an isolated and purified *Brachyspira hyodysenteriae* lipoprotein having the amino acid sequence of SEQ ID NO: 2 and a pharmaceutically acceptable carrier.

Claims 34-47 (Canceled).